

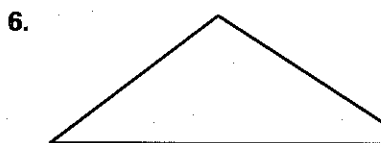
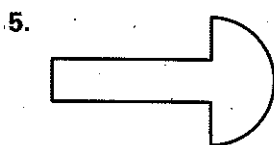
Practice A

For use with pages 303–308

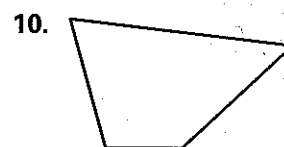
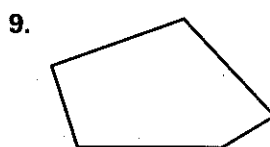
Match the key word with its description.

- | | |
|--------------------------|--|
| 1. sides of a polygon | A. a plane figure that is formed by three or more segments |
| 2. diagonal of a polygon | B. the segments that form a polygon |
| 3. polygon | C. each endpoint of a side of a polygon |
| 4. vertex of a polygon | D. a segment that joins two nonconsecutive vertices of a polygon |

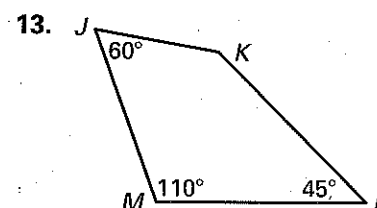
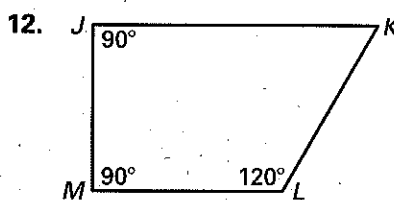
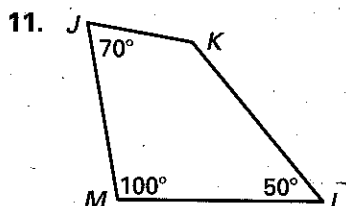
Is the figure a polygon? Explain your reasoning.



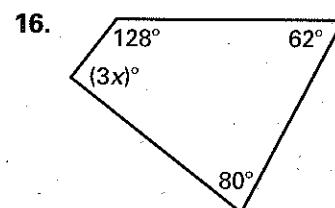
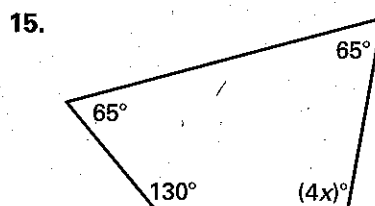
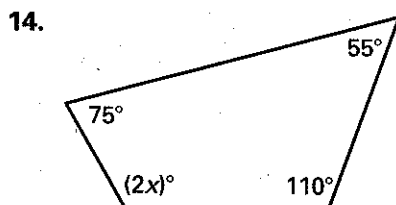
Classify the polygon by its number of sides.



Find the measure of $\angle K$.

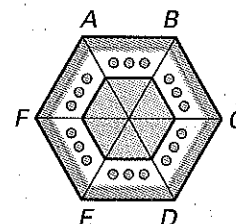


Find the value of x .



The game board pictured at the right has the shape of a polygon.

- Tell how many sides the polygon has and what type of polygon it is.
- Name the vertices of the polygon.
- Name the sides of the polygon.

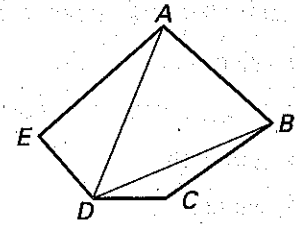


Practice B

For use with pages 303–308

Polygon $ABCDE$ is shown at the right.

1. Name the vertices of polygon $ABCDE$.
2. Name the sides of polygon $ABCDE$.
3. Name the diagonals from vertex D of polygon $ABCDE$.

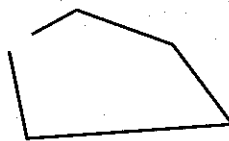


Decide whether the figure is a polygon. If so, tell what type. If not, explain why.

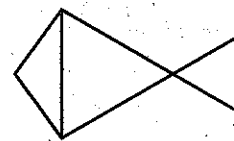
4.



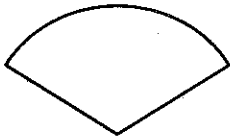
5.



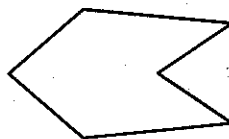
6.



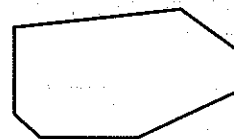
7.



8.

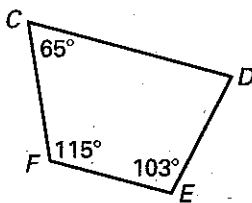


9.

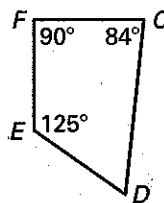


Find the measure of $\angle D$.

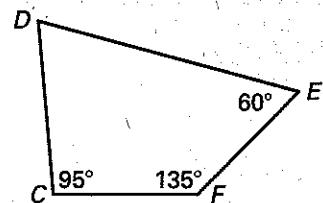
10.



11.

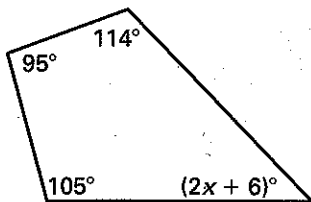


12.

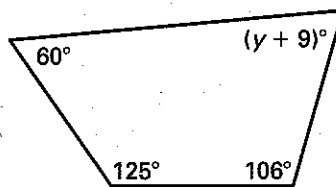


Find the value of the variable.

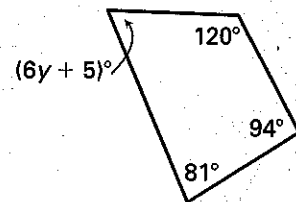
13.



14.



15.



In Exercises 16–18, use the stop sign pictured at the right.

16. Is the sign a polygon? If so, tell what type. If not, explain why.
17. Polygon $ABCDEFGH$ is one name for the polygon. State two other names using the vertices.
18. Name all of the diagonals of the polygon that have vertex G as an endpoint.

